



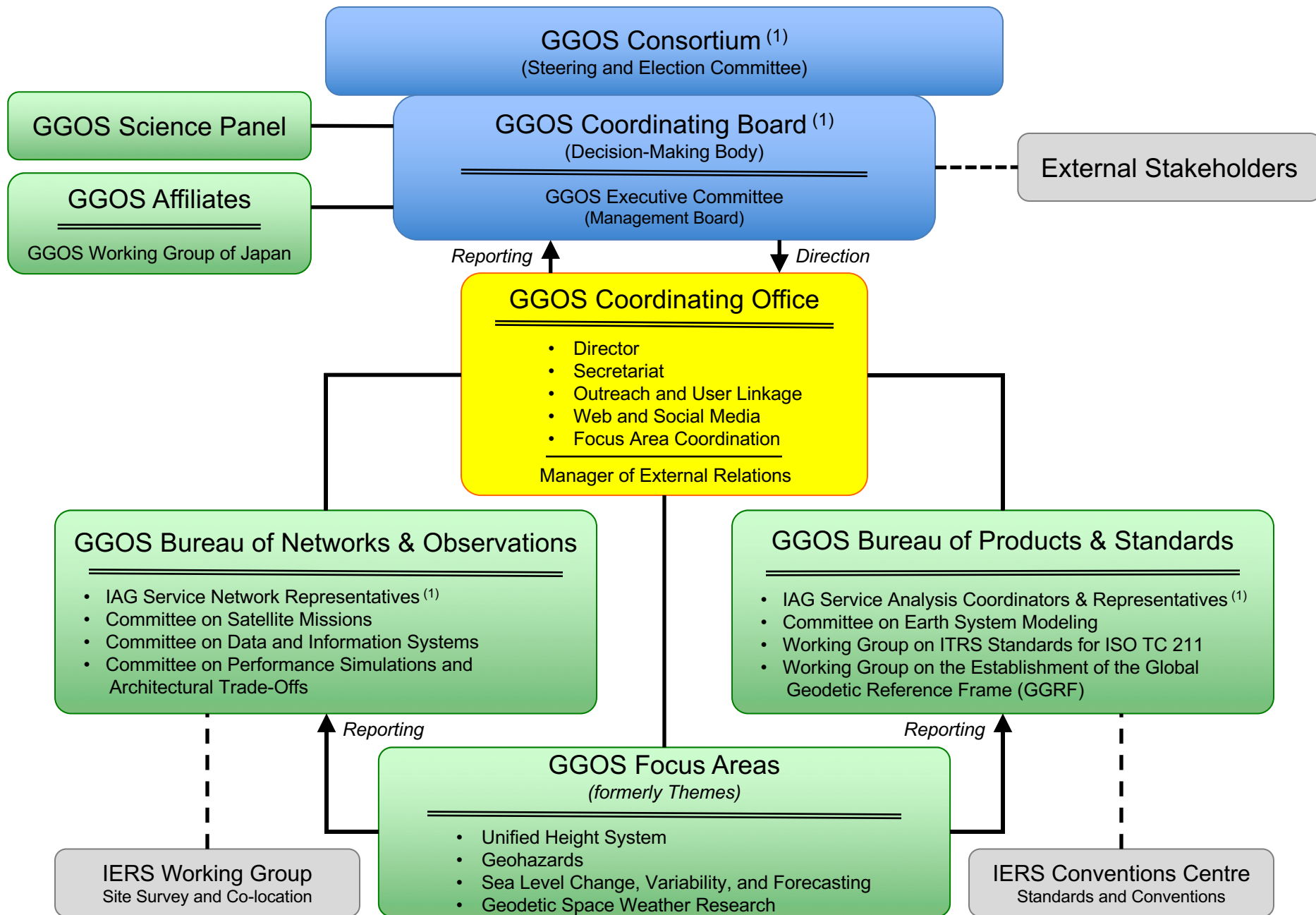
# GGOS Chair Report

*presented by*  
*Richard S. Gross*

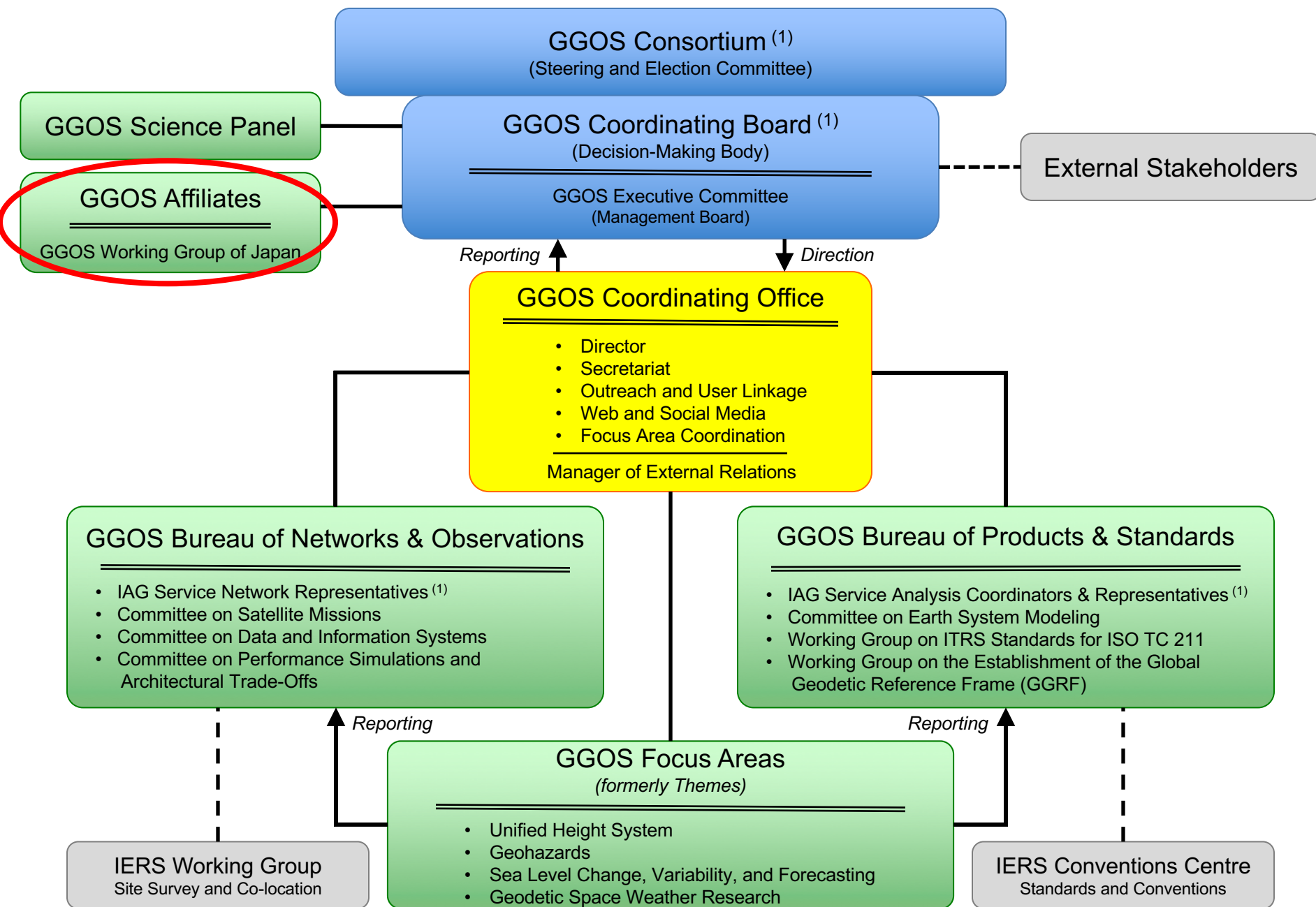
Jet Propulsion Laboratory  
California Institute of Technology  
Pasadena, CA 91109–8099, USA

Global Geodetic Observing System  
Coordinating Board Meeting

April 7, 2018  
Vienna, Austria



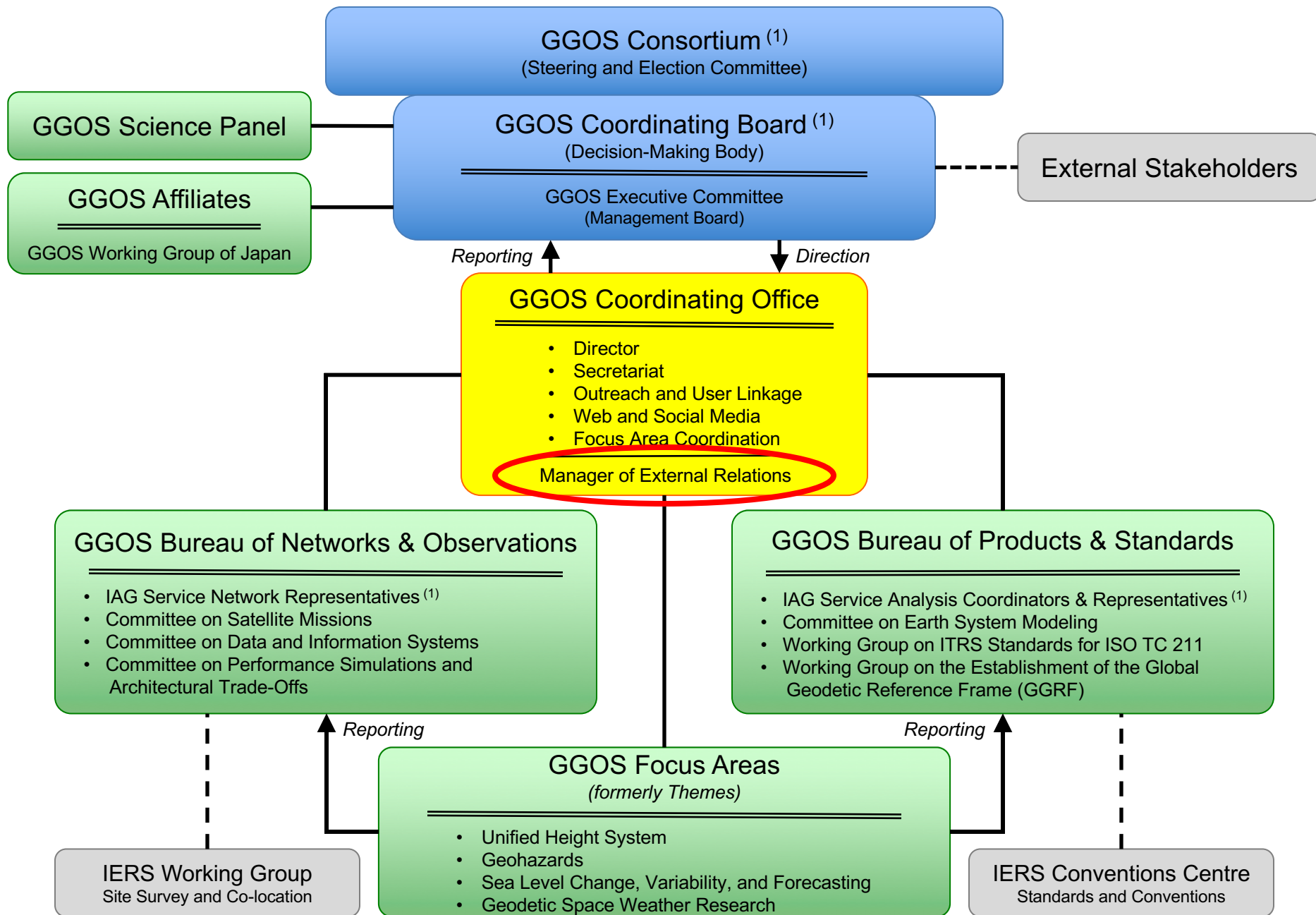
<sup>(1)</sup> GGOS is built upon the foundation provided by the IAG Services, Commissions, and Inter-Commission Committees



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# GGOS Affiliate

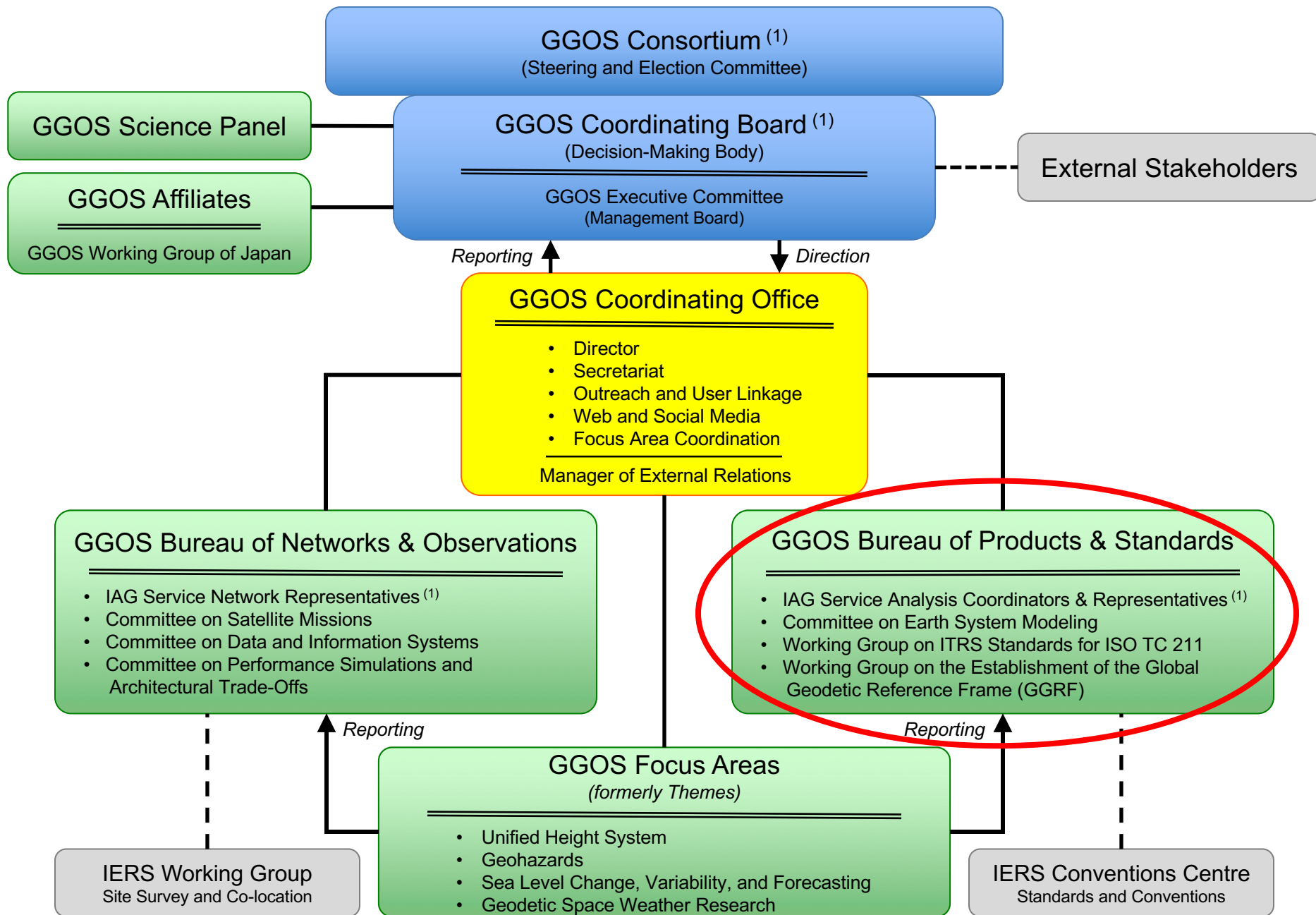
- National or regional organization
  - That coordinates space-geodetic activities there
- Established to increase participation in GGOS
  - Particularly from under-represented areas
    - Africa, Asia, South and Central America
- Is a component of GGOS
  - With representation on Consortium and Coordinating Board
    - Each GGOS Affiliate has 1 representative to Consortium
    - Collectively they have 2 representatives to Coordinating Board
- First GGOS Affiliate
  - GGOS Working Group of Japan
    - Established in 2013; Chair: Toshi Otsubo of Hitotsubashi University, Japan
    - Provides forum for multi-technique, space-geodetic discussions within Japan
    - Strives to improve quality of observations & encourage collaboration in Japan
- Encourage others to become GGOS Affiliates
  - Particularly important for nations/regions where multiple agencies own space-geodetic equipment



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# Manager of External Relations

- Expanding involvement in external organizations
  - Group on Earth Observations (GEO)
    - GGOS Chair appointed to GEO Programme Board for 2018-2020
  - Committee on Earth Observation Satellites (CEOS)
    - Limited participation at present
    - Should be expanded to complement GGOS participation in GEO
  - UN-GGIM Subcommittee on Geodesy
    - Will establish an appropriate governance mechanism for sustaining GGRF
- Requires better approach to managing activities
  - Past approach rather *ad hoc* in nature
    - Volunteer-based
    - Little long-term stability in representation
- Position of Manager of External Relations created
  - To coordinate GGOS engagement with external organizations
    - Resides within GGOS Coordinating Office
    - Appointed by GGOS Chair subject to approval by GGOS Coordinating Board
    - Member of Coordinating Board and Executive Committee
- Allison Craddock selected as first Manager



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# Essential Geodetic Variables

- Observed variables
  - Crucial to characterizing geodetic properties of Earth
  - Key to sustainable geodetic observations
    - Positions of reference objects (ground stations, radio sources), EOPs
    - Gravity measurements (ground-based, space-based)
- Assign requirements to each EGV
  - Accuracy, spatial and temporal resolution, latency, stability, ...
- Derive requirements
  - On EGV-dependent products (TRF, CRF, ...)
  - On infrastructure (observing systems)
- Can be used to update GGOS2020 book
  - Bottoms-up approach to deriving requirements
    - Complements top-down approach used in GGOS2020 book (user needs)
- Establish Committee within GGOS BPS
  - To create list of EGVs, assign requirements to them, etc.
  - Committee will include representatives of
    - IAG Services, Commissions, Intercommission Committees, GGOS Focus Areas

# Science Panel Members

## IAG Commission 1

Geoff Blewitt (USA)

Markus Rothacher (Switzerland)

## IAG Commission 2

Thomas Gruber (Germany)

Kosuke Heki (Japan)

## IAG Commission 3

Jianli Chen (USA)

José Ferrándiz (Spain)

## IAG Commission 4

Pawel Wielgosz (Poland)

Jens Wickert (Germany)

## IAG ICC Theory

Mattia Crespi (Italy)

Yoshiyuki Tanaka (Japan)

## GGOS Focus Area 1

(Unified Height System)

Bernhard Heck (Germany)

## GGOS Focus Area 2

(Geohazards)

Diego Melgar (USA)

## GGOS Focus Area 3

(Sea Level Change)

Don Chambers (USA)

## GGOS Focus Area 4

(Space Weather Research)

Ehsan Forootan (UK)

# GGOS Days 2018

GSI Headquarters  
Tsukuba, Japan  
October 2-4, 2018

Will include excursion to  
Ishioka Geodetic Observing Station

Please Attend!



Markus Rothacher (GGOS Chair), Achim Helm (GeoForschungsZentrum Potsdam)  
Ruth E. Neillan (GGOS Vice-Chair) (Jet Propulsion Laboratory)  
Hans-Peter Plag (GGOS Vice-Chair) (University of Nevada)

